

Case Study Three – Interface PCB Link Fault

A Siemens Robicon fibre optic interface board P/N 461D85.00 was inspected by CHB Drives for any faults with a reported link fault on the fibre optic port for Cell A5.



Using the CHB medium voltage drive demonstrator the fibre optic interface board was tested which verified the Cell C5 link fault as reported.

The send and receive circuits on the cell control board for Cell C5 were tested. Voltages and waveforms were recorded and compared against known expected values and waveforms. Component actual values were checked for resistors and capacitors used in the circuit to make sure they fell within specification.

A faulty integrated circuit 754528 was found for the send and receive drive circuit for Cell C5. The integrated circuit was replaced, and full functional testing was conducted using the medium voltage drive demonstrator. This included testing of all fibre optic ports including the spare ports.

A comprehensive report was generated documenting the failure, repair and testing completed. All CHB Drives repairs come with a one-year warranty for the repair work.